

BINARY STATE MACHINE SYSTEM AND METHOD FOR REGEX
PROCESSING OF A DATA STREAM IN AN INTRUSION DETECTION
SYSTEM

ABSTRACT OF THE DISCLOSURE

A binary state machine system and method for REGEX
processing of a data stream in an intrusion detection
system are disclosed. The method comprises maintaining a
state table. The state table is indexed such that inputs
comprising a current state and a current character yield
an output of a new state. The new state is related to an
indication of an attack on a computer network. The
method further includes maintaining the current state.
An input stream comprising a plurality of characters is
received. A first character of the input stream is
selected as the current character. The current character
and the current state are compared to the state table to
generate a new state.